

# High-Power Wire-to-Board Connectors (ISH/ISHV/IARPB)

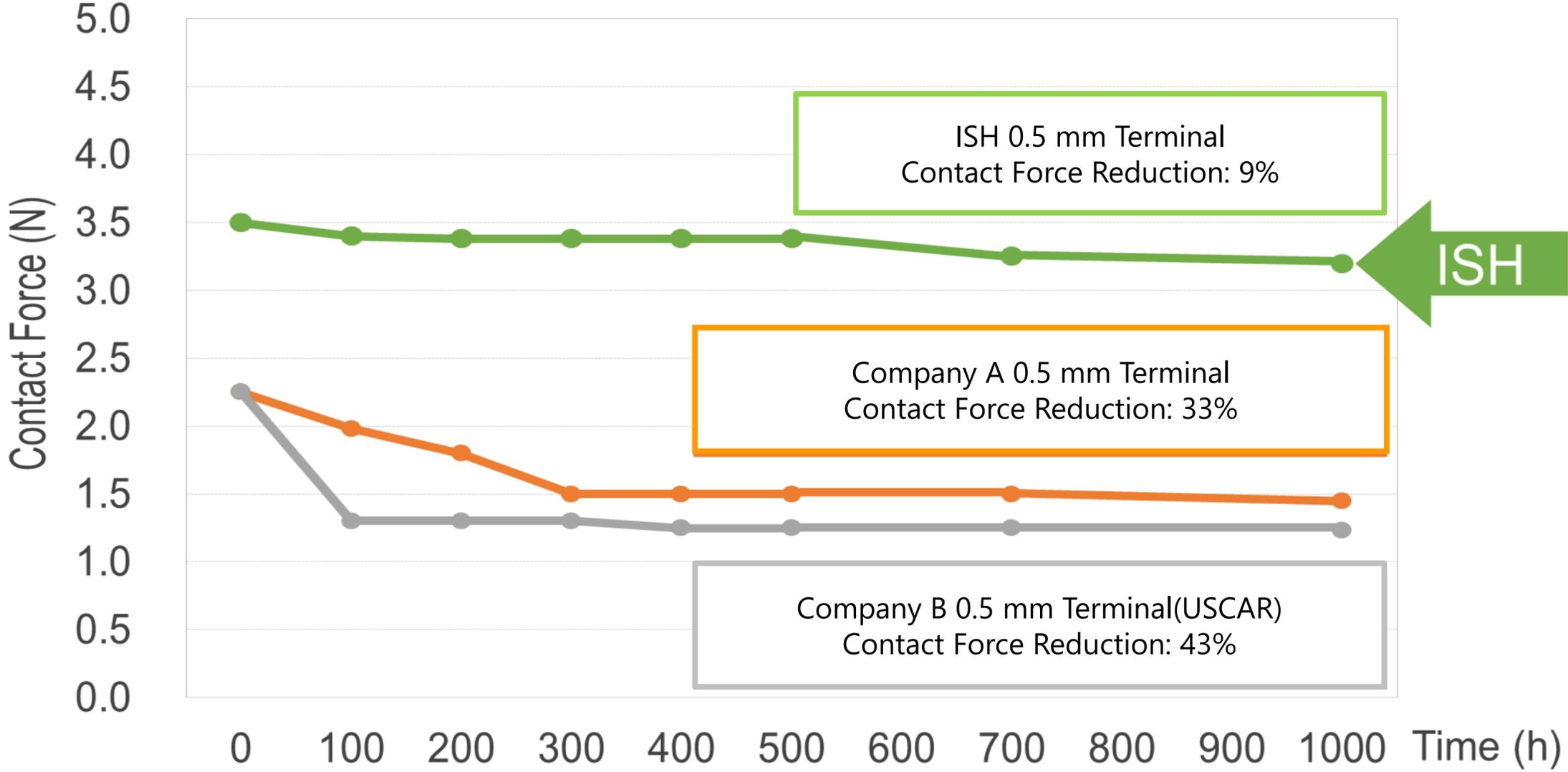
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Series	ISH				ISHV		IARPB
Feature							
	<b>Miniaturized 125 °C resistance horizontal mating connector</b>	<b>Dedicated Power Pin</b>	<b>Miniaturized 125 °C resistance vertical mating connector</b>	<b>Miniaturized 125 °C resistance wire-to-wire connector</b>	<b>Miniaturized 125 °C resistance LV214 compatible connector</b>	<b>Miniaturized 125 °C resistance LV214 compatible connector</b>	<b>Miniaturized board-in connector</b>
Mating Type	Horizontal		Vertical	Wire to Wire	Horizontal	Vertical	Through-Hole DIP
Available Pin Count	3 (1 row) 6/8/12/16/20/32 (2 rows)	20/28 (2 rows) (20 P) Signal 18+Power 2 (28 P) Signal 26+Power 2	10/20/26 (2 rows)	3 (1 row) 8 (2 rows)	12/16 (2 rows)	8 (2 rows)	2/3/4/5/6 (1 row)
Pitch	2.0 mm	Signal : 2.0 mm Power : 3.8 mm	2.0 mm		2.0 mm		2.5 mm
Pin Size	0.50 mm * 0.40 mm (020)	Signal: 0.50 mm*0.40 mm (020) Power: 1.50 mm*0.64 mm (060)	0.50 mm * 0.40 mm (020)				φ 0.7
Mating Height	7.4 mm (1 row) 10.9 mm (2 rows)	13.60 mm	20.75 mm	8.00 mm (1 row) 11.7 mm (2 rows)	10.90 mm (2 rows)	19.95 mm	3,30 mm
Current Rating	4.5A per pin	Signal 4.5A per pin Power 7A per pin	4.5A per pin				3A per pin
Operating Temperature	-40 – 125 °C						-40 – 105 °C
Vibration Resistance	10 G						
Plating	Sn						
Automotive Standards	USCAR-2 (*)	USCAR-2 (**)	LV214	LV214 (***)	LV214	LV214	Several OEM specs

Note (\*) : 8P and 12P tested. Except for Retention Force specification. (\*\*) : 20P tested. Rear cover needed to satisfy specification. Male power terminal retention force not satisfying. (\*\*\*) 8P tested.

# High-Power Wire-to-Board Connectors (ISH/ISHV)

## Stress Relaxation (125°C)



# High-power supply terminal for board-to-board connector

## Ground • power supply leaf connector

↓ Click the photos below to get more detailed product information.

Series		AP-10	AP-TSS10 / AP-LT10	
Feature				
		<b>High current (16A), High temperature (105°C) resistance, board-to-board power supply terminal</b>	<b>High current (32A), High temperature (125°C) resistance, board-to-board power supply terminal</b>	
Mating type		Vertical	Vertical (M3 thread screw)	
Size (mm)	Height (mm)	11.70 +/- 0.20 (Receptacle)	8.00 +/- 0.10 (AP-TSS10) 1.00 +/- 0.10 (AP-LT10)	
		7.50 +/- 0.10 (Plug: 7.5)		
		14.50 +/- 0.10 (Plug: 14.5)		
	Width (mm)	7.60 +/- 0.20 (Receptacle)	Φ7.00 +/- 0.10 (AP-TSS10) Φ8.20 +/- 0.10 (APLT-10)	
		6.00 +/- 0.10 (Plug: 7.5)		
		7.60 +/- 0.10 (Plug: 14.5)		
	Depth (mm)	3.40 +/- 0.20 (Receptacle)		
		3.40 +/- 0.20 (Plug: 7.5)		
		5.20 +/- 0.20 (Plug: 14.5)		
Plating Type		Sn / Ni plating		Sn / Ni plating
Rating Amperage		16A DC		32A DC
Operating Temperature		233~378 (-40~+105°C)		233~398 (-40~+125°C)
Contact resistance		1.0 mΩ Max.	1.0 mΩ Max.	
Operating Humidity		85 % Max. (Non-Condensing)	85 % Max. (Non-Condensing)	
Durability		3 CYCLES	-	

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